

D. Lukton

**RAW SEQUENCE LISTING
ERROR REPORT**

BIO TECHNOLOGY
SYSTEMS
BRANCH

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The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number 09/380,738
Source 1653
Date Processed by STIC 4-17-01

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE
APPLICANT WITH A NOTICE TO COMPLY or
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A
NOTICE TO COMPLY.
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER
VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW.

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:
<http://www.uspto.gov/web/offices/pac/checker>

Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/380,738

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 Wrapped Nucleic
The number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".

2 Wrapped Aminos
The amino acid number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".

3 Incorrect Line Length
The rules require that a line not exceed 72 characters in length. This includes spaces.

4 Misaligned Amino Acid Numbering
The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and use spacing between the numbers.

5 Non-ASCII
This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.

6 Variable Length
Sequence(s) contain n's or Xaa's which represented more than one residue.
As per the rules, each n or Xaa can only represent a single residue.
Please present the maximum number of each residue having variable length and indicate in the (ix) feature section that some may be missing.

7 PatentIn ver. 2.0 "bug"
A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

8 Skipped Sequences (OLD RULES)
Sequence(s) missing. If intentional, please use the following format for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X:
(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
This sequence is intentionally skipped
Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).

9 Skipped Sequences (NEW RULES)
Sequence(s) missing. If intentional, please use the following format for each skipped sequence.
<210> sequence id number
<400> sequence id number
000

10 Use of n's or Xaa's (NEW RULES)
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

11 Use of "Artificial" (NEW RULES)
Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules.
Valid response is Artificial Sequence.

12 Use of <220>Feature (NEW RULES)
Sequence(s) are missing the <220>Feature and associated headings.
Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial Sequence" or "Unknown"
Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)

13 PatentIn ver. 2.0 "bug"
Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other means to copy file to floppy disk.

U. Luka/63
 RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/380,738

DATE: 04/17/2001
 TIME: 13:02:31

Input Set : A:\Reynolds.txt
 Output Set: N:\CRF3\04172001\I380738.raw

Does Not Comply
 Corrected Diskette Needed

pp. 3, 4, 5

3 <110> APPLICANT: REYNOLDS, Eric
 5 <120> TITLE OF INVENTION: CALCIUM PHOSPHOPEPTIDE COMPLEXES
 7 <130> FILE REFERENCE: 040268/0161
 9 <140> CURRENT APPLICATION NUMBER: US 09/380,738
 10 <141> CURRENT FILING DATE: 1999-12-06
 12 <150> PRIOR APPLICATION NUMBER: PCT/AU98/00160
 13 <151> PRIOR FILING DATE: 1998-03-13
 15 <150> PRIOR APPLICATION NUMBER: AU P05662
 16 <151> PRIOR FILING DATE: 1998-03-13
 18 <160> NUMBER OF SEQ ID NOS: 23
 20 <170> SOFTWARE: PatentIn version 3.0
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 21
 24 <212> TYPE: PRT
 25 <213> ORGANISM: Bos sp.
 27 <220> FEATURE:
 28 <221> NAME/KEY: misc_feature
 29 <222> LOCATION: (6)..(6)
 30 <223> OTHER INFORMATION: Xaa is a phosphorylated Serine
 33 <220> FEATURE:
 34 <221> NAME/KEY: misc_feature
 35 <222> LOCATION: (8)..(8)
 36 <223> OTHER INFORMATION: Xaa is a phosphorylated Serine
 39 <220> FEATURE:
 40 <221> NAME/KEY: misc_feature
 41 <222> LOCATION: (9)..(9)
 42 <223> OTHER INFORMATION: Xaa is a phosphorylated Serine
 45 <220> FEATURE:
 46 <221> NAME/KEY: misc_feature
 47 <222> LOCATION: (10)..(10)
 48 <223> OTHER INFORMATION: Xaa is a phosphorylated Serine
 51 <220> FEATURE:
 52 <221> NAME/KEY: misc_feature
 53 <222> LOCATION: (17)..(17)
 54 <223> OTHER INFORMATION: Xaa is a phosphorylated Serine
 57 <400> SEQUENCE: 1
 W--> 59 Gln Met Glu Ala Glu Xaa Ile Xaa Xaa Glu Glu Ile Val Pro Asn
 60 1 5 10 15
 W--> 62 Xaa Val Glu Gln Lys
 63 20
 65 <210> SEQ ID NO: 2
 66 <211> LENGTH: 25
 67 <212> TYPE: PRT
 68 <213> ORGANISM: Bos sp.
 70 <220> FEATURE:
 71 <221> NAME/KEY: misc_feature
 72 <222> LOCATION: (15)..(15)

RAW SEQUENCE LISTING
PATENT APPLICATION

Input Set : A:
Output Set: N:

146 <222> LOCATION: (8)..(8)
147 <223> OTHER INFORMATION: Xaa
150 <220> FEATURE:
151 <221> NAME/KEY: misc_feature
152 <222> LOCATION: (9)..(9)
153 <223> OTHER INFORMATION: Xaa
156 <220> FEATURE:
157 <221> NAME/KEY: misc_feature
158 <222> LOCATION: (10)..(10)
159 <223> OTHER INFORMATION: Xaa
162 <220> FEATURE:
163 <221> NAME/KEY: misc_feature
164 <222> LOCATION: (16)..(16)
165 <223> OTHER INFORMATION: Xaa
168 <400> SEQUENCE: 4

W--> 170 Lys Asn Thr Met Glu His Val
171 1 5
173 Gln Glu Thr Tyr Lys
174 20
176 <210> SEQ ID NO: 5
177 <211> LENGTH: 5
178 <212> TYPE: PRT

C--> 179 <213> ORGANISM: Artificial/
181 <220> FEATURE:
182 <221> NAME/KEY: misc_feature
183 <222> LOCATION: ()..()
184 <223> OTHER INFORMATION: Sy
187 <220> FEATURE:
188 <221> NAME/KEY: misc_feature
189 <222> LOCATION: (1)..(1)
190 <223> OTHER INFORMATION: Xaa
193 <220> FEATURE:
194 <221> NAME/KEY: misc_feature
195 <222> LOCATION: (2)..(2)
196 <223> OTHER INFORMATION: Xaa
199 <220> FEATURE:
200 <221> NAME/KEY: misc_feature
201 <222> LOCATION: (3)..(3)
202 <223> OTHER INFORMATION: Xaa
205 <400> SEQUENCE: 5

W--> 207 Xaa Xaa Xaa Glu Glu
208 1 5
210 <210> SEQ ID NO: 6
211 <211> LENGTH: 8
212 <212> TYPE: PRT

C--> 213 <213> ORGANISM: Artificial/
215 <220> FEATURE:
216 <221> NAME/KEY: misc_feature
217 <222> LOCATION: ()..()

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/380,738

DATE: 04/17/2001
TIME: 13:02:31

Input Set : A:\Reynolds.txt
Output Set: N:\CRF3\04172001\I380738.raw

73 <223> OTHER INFORMATION: Xaa is a phosphorylated Serine
76 <220> FEATURE:
77 <221> NAME/KEY: misc_feature
78 <222> LOCATION: (17)..(17)
79 <223> OTHER INFORMATION: Xaa is a phosphorylated Serine
82 <220> FEATURE:
83 <221> NAME/KEY: misc_feature
84 <222> LOCATION: (18)..(18)
85 <223> OTHER INFORMATION: Xaa is a phosphorylated Serine
88 <220> FEATURE:
89 <221> NAME/KEY: misc_feature
90 <222> LOCATION: (19)..(19)
91 <223> OTHER INFORMATION: Xaa is a phosphorylated Serine
94 <400> SEQUENCE: 2
W--> 96 Arg Glu Leu Glu Glu Leu Asn Val Pro Gly Glu Ile Val Glu Xaa Leu
97 1 5 10 15
W--> 99 Xaa Xaa Xaa Glu Glu Ser Ile Thr Arg
100 20 25
102 <210> SEQ ID NO: 3
103 <211> LENGTH: 25
104 <212> TYPE: PRT
105 <213> ORGANISM: Bos sp.
107 <220> FEATURE:
108 <221> NAME/KEY: misc_feature
109 <222> LOCATION: (11)..(11)
110 <223> OTHER INFORMATION: Xaa is a phosphorylated Serine
113 <220> FEATURE:
114 <221> NAME/KEY: misc_feature
115 <222> LOCATION: (12)..(12)
116 <223> OTHER INFORMATION: Xaa is a phosphorylated Serine
119 <220> FEATURE:
120 <221> NAME/KEY: misc_feature
121 <222> LOCATION: (13)..(13)
122 <223> OTHER INFORMATION: Xaa is a phosphorylated Serine
125 <220> FEATURE:
126 <221> NAME/KEY: misc_feature
127 <222> LOCATION: (16)..(16)
128 <223> OTHER INFORMATION: Xaa is a phosphorylated Serine
131 <400> SEQUENCE: 3
W--> 133 Asn Ala Asn Glu Glu Glu Tyr Ser Ile Gly Xaa Xaa Xaa Glu Glu Xaa
134 1 5 10 15
136 Ala Glu Val Ala Thr Glu Glu Val Lys
137 20 25
139 <210> SEQ ID NO: 4
140 <211> LENGTH: 21
141 <212> TYPE: PRT
142 <213> ORGANISM: Bos sp.
144 <220> FEATURE:
145 <221> NAME/KEY: misc_feature

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/380,738

DATE: 04/17/2001
TIME: 13:02:31

Input Set : A:\Reynolds.txt
Output Set: N:\CRF3\04172001\I380738.raw

218 <223> OTHER INFORMATION: Synthetic peptide
 221 <220> FEATURE:
 222 <221> NAME/KEY: misc_feature
 223 <222> LOCATION: (2)..(2)
 224 <223> OTHER INFORMATION: Xaa is a phosphorylated Serine
 227 <220> FEATURE:
 228 <221> NAME/KEY: misc_feature
 229 <222> LOCATION: (4)..(4)
 230 <223> OTHER INFORMATION: Xaa is a phosphorylated Serine
 233 <220> FEATURE:
 234 <221> NAME/KEY: misc_feature
 235 <222> LOCATION: (5)..(5)
 236 <223> OTHER INFORMATION: Xaa is a phosphorylated Serine
 239 <220> FEATURE:
 240 <221> NAME/KEY: misc_feature
 241 <222> LOCATION: (6)..(6)
 242 <223> OTHER INFORMATION: Xaa is a phosphorylated Serine
 245 <400> SEQUENCE: 6
 W--> 247 Glu Xaa Ile Xaa Xaa Xaa Glu Glu
 248 1 5
 250 <210> SEQ ID NO: 7
 251 <211> LENGTH: 5
 252 <212> TYPE: PRT
 C--> 253 <213> ORGANISM: Artificial/Unknown
 255 <220> FEATURE:
 256 <221> NAME/KEY: misc_feature
 257 <222> LOCATION: ()..()
 258 <223> OTHER INFORMATION: Synthetic peptide
 261 <400> SEQUENCE: 7
 263 Gln Met Glu Ala Glu
 264 1 5
 266 <210> SEQ ID NO: 8
 267 <211> LENGTH: 8
 268 <212> TYPE: PRT
 C--> 269 <213> ORGANISM: Artificial/Unknown
 271 <220> FEATURE:
 272 <221> NAME/KEY: misc_feature
 273 <222> LOCATION: ()..()
 274 <223> OTHER INFORMATION: Synthetic peptide
 277 <220> FEATURE:
 278 <221> NAME/KEY: misc_feature
 279 <222> LOCATION: (5)..(5)
 280 <223> OTHER INFORMATION: Xaa is a phosphorylated Serine
 283 <400> SEQUENCE: 8
 W--> 285 Ile Val Pro Asn Xaa Val Glu Gln
 286 1 5
 288 <210> SEQ ID NO: 9
 289 <211> LENGTH: 5
 290 <212> TYPE: PRT

Refer to p. 3

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/380,738

DATE: 04/17/2001
TIME: 13:02:31

Input Set : A:\Reynolds.txt
Output Set: N:\CRF3\04172001\I380738.raw

C--> 291 <213> ORGANISM: Artificial/Unknown
 293 <220> FEATURE:
 294 <221> NAME/KEY: misc_feature
 295 <222> LOCATION: ()...()
 296 <223> OTHER INFORMATION: Synthetic peptide
 299 <220> FEATURE:
 300 <221> NAME/KEY: misc_feature
 301 <222> LOCATION: (2)...(2) /
 302 <223> OTHER INFORMATION: Xaa is a phosphorylated Serine
 305 <220> FEATURE:
 306 <221> NAME/KEY: misc_feature
 307 <222> LOCATION: (3)...(3) /
 308 <223> OTHER INFORMATION: Xaa is a phosphorylated Serine
 311 <400> SEQUENCE: 9
 W--> 313 Ser Xaa Xaa Glu Glu
 314 1 5
 316 <210> SEQ ID NO: 10
 317 <211> LENGTH: 5
 318 <212> TYPE: PRT
 C--> 319 <213> ORGANISM: Artificial/Unknown
 321 <220> FEATURE:
 322 <221> NAME/KEY: misc_feature
 323 <222> LOCATION: ()...()
 324 <223> OTHER INFORMATION: Synthetic peptide
 327 <220> FEATURE:
 328 <221> NAME/KEY: misc_feature
 329 <222> LOCATION: (2)...(2) /
 330 <223> OTHER INFORMATION: Xaa is a phosphorylated Serine
 333 <220> FEATURE:
 334 <221> NAME/KEY: misc_feature
 335 <222> LOCATION: (3)...(3) /
 336 <223> OTHER INFORMATION: Xaa is a phosphorylated Serine
 339 <400> SEQUENCE: 10
 W--> 341 Glu Xaa Xaa Glu Glu
 342 1 5
 344 <210> SEQ ID NO: 11
 345 <211> LENGTH: 5
 346 <212> TYPE: PRT
 C--> 347 <213> ORGANISM: Artificial/Unknown
 349 <220> FEATURE:
 350 <221> NAME/KEY: misc_feature
 351 <222> LOCATION: ()...()
 352 <223> OTHER INFORMATION: Synthetic peptide
 355 <220> FEATURE:
 356 <221> NAME/KEY: misc_feature
 357 <222> LOCATION: (2)...(2) /
 358 <223> OTHER INFORMATION: Xaa is a phosphorylated Serine
 361 <220> FEATURE:
 362 <221> NAME/KEY: misc_feature /

Refer to P³

Please Note:
 Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/380,738

DATE: 04/17/2001
TIME: 13:02:32

Input Set : A:\Reynolds.txt
Output Set: N:\CRF3\04172001\I380738.raw

L:59 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:62 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:96 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:99 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:170 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:179 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6
L:207 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:213 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6
L:247 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:253 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:8
L:269 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:8
L:285 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:291 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9
L:313 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:319 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:10
L:341 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:347 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:11
L:369 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:375 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:12
L:403 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:409 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:14
L:431 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:437 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:15
L:453 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:459 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:16
L:475 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:481 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:16
L:497 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:503 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:17
L:525 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:531 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:18
L:559 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:565 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:19
L:599 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:605 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:20
L:639 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:645 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:21
L:667 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22
L:673 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:22
L:695 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:701 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:23
L:723 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23



Creation date: 09-25-2003
Indexing Officer: GMINIE - GELLA MINIE
Team: OIPEBackFileIndexing
Dossier: 09380738

Legal Date: 08-16-2000

No.	Doccode	Number of pages
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2	REM	1

Total number of pages: 2

Remarks:

Order of re-scan issued on